guidelines issued by the CIL on this subject. Engagement of hired equipment for mining activity, which is act of a perpetual nature, does not appear to be violative of any law

Construction of residential quarters at Bhagabandh colliery

2969. SHRI SAMAR MUKHERJEE: Will the Minister of ENERGY be pleased to state:

(a) what is the number of new quarters built in Bhagabandh colliery of BCCL during the period of third national coal wage agreement;

(b) what is the sanctioned proportion of cement to be used in constructing these quarters;

(c) what is the actual proportion of cement used there;

(d) whether there has been a gross violation of the norms, thus making all the buildings unsafe for living; and

(e) if so, what are the details thereof and what steps have been taken thereon?

THE MINISTER OF ENERGY (SHRI VANSANT SATHE): (a) 227 units of miners' quarters and 8 units of hutments for Officers have been constructed since 1-1-83 till date.

(b) The sanctioned proportion of cement to be used for various types of work is as under:—

(i) Plaster- 1 cement: 8 sand

(ii) Concrete-1 cement: 2 sand: 4 stone chips

(iii) Cement and brick work in compound wall-1 cement: 6 sand

(c) As per information collected from the Company, the cement has been used as per prescribed specification for various works.

(d) No, Sir.

(e) Does not arise.

Longwall Mining Technology

2970. SHRI SAMAR MUKHERJEE: Will the Minister of ENERGY be pleased to state:

(a) what is the number of longwall mines developed in Coal India Ltd. at the end of Fifth and Sixth Five Year Plans and proposed to be developed at the end of Seventh Five Year Plan;

(b) what is the number of longwall mines developed in Bharat Coking Coal Ltd (BCCL);

(c) whether any cost analysis has been made comparing longwall method with conventional bord and pillar method in any of the mines of BCCL; and

(d) if so, what are the details thereof?

THE MINISTER OF ENERGY (SHRI VASANT SATHE): (a) At the end of the Fifth Five Year Plan, there was only one powered support longwall mine in Coal India Ltd. This number went upto five at the end of the Sixth Plan. The total number of powered support longwall faces proposed to be developed by the end of Seventh Five Year Plan in mines of Coal India Ltd. is estimated at 22.

(b) In Bharat Coking Coal Ltd., two longwall faces with powered support have been developed so far.

(c) and (d) Techno-economic feasibility studies to compare longwall method with bord and pillar method of mining have been carried out while selecting the appropriate technology for some individual mines in Coal India Ltd It may be stated that the choice of technology for application to any particular site depends on geo-mining conditions, need to conserve coal and cost effectiveness of the technology.

Recovery of unintended benefits

2971. SHRI GURUDAS DAS GUPTA: Will the Minister of INDUSTRY be pleased to state:

(a) whether it is a fact that Government have decided to recover unintended

profits from a number of Drug Companies; and

(b) if so, what are the details thereof?

THE MINISTER OF STATE IN THE DEPARTMENT OF CHEMICALS AND PETRO-CHEMICALS IN THE MINISTRY OF INDUSTRY (SHRI R. K. JAICHANDRA SINGH): (a) Yes, Sir.

(b) It is a continuous process. To the extent information made available by the companies, the following are the amounts assessed tentatively by the special team to be recovered from the company for the period ending 31st December, 1983:—

	Rs.
(1) M/s. Hoechst (I) Ltd.	5,64,12,423
(2) M/s. Cynamid (I) Ltd.	4,92,00,247
(3) M/s. John Wyeth	1,66,87,232
(4) M/s. Pfizer (I) Ltd.	99 07 731
(5) M/s. Geofffery Manners	29 85,268
(6) M/s. Ethnor	10,18,543

Energy consumption in Cement plants

2972. SHRI BHAGATRAM MANHAR: Will the Minister of INDUSTRY be pleased to refer to the answer to Starred Question 185 given in the Rajya Sabha on the 10th August, 1987 and state:

(a) the comparative energy consumption in cement plants in giant, large, medium, mini and tiny sectors;

(b) what are the outlines of studies and observations made recently by Bureau of Industrial Costs and Prices, National Productivity Council and Cement Research Institute of different sectors of Cement industry;

(c) whether Government have formulated any scheme for encouraging and assisting appropriate technologies aimed at substantial energy conservation, affecting significant saving in capital cost and also generating immediate employment avenues; and

(d) what are the salient features of the scheme/approach?

THE MINISTER OF STATE IN THE DEPARTMENT OF INDUSTRIAL DEVELOPMENT IN THE MINISTRY OF INDUSTRY (SHRI M ARUNACHALAM): (a) The energy consumption per tonne of annual cement production in cement plant depends upon the process technology used and capacity utilisation. A detailed study on Energy audit in Cement Industry was made recently by the Bureau of Industrial Costs & Prices and National Council for Cement & Building Materials. The study pertains to large cement plants. No formal study has been made in regard to the mini and tiny sectors.

The BICP/NCB report has shown that the weighted average electric power consumption was 114 units per tonne of ordinary portland cement in 1983-84 for the wet process plants and it was 155 units per tonne for the dry process plants. For all the plants taken together, the electric power consumption comes to 130 units per tonne of O.P.C.

The weighted average consumption of thermal energy was 1 657 G|Cal|tonne of OPC for the wet process plants and it was 0 977 G|Cal per tonne of OPC for the dry process plants. For all the plants taken together, the thermal energy consumption was 1 330 G|Cal per tonne.

(b) Following are the main recommendations of the study,

(i) Monitoring agency like National Council for Cement and Building Material and Bureau of Industrial Costs & Prices should formulate the norms for